

AWS CloudFormation templates

Sandbox Studio is packaged as a set of AWS CloudFormation stacks. If you decide to manually install Sandbox Studio, you must deploy them **in the order shown below** and **into specific AWS accounts**. This page explains each stack, where to deploy it, and why the order matters.

Stack Summary

#	Stack	What it does	Deploy to	Key AWS Services	Depends on
1	Account Pool	Creates OUs to host sandbox accounts and applies SCPs to govern them.	Org Management Account	AWS Organisational Units (OU's), Service Control Policies (SCP's)	-
2	IDC	Sets up IAM Identity Center groups used by Sandbox Studio users.	Org Management Account	IAM Identity Center Groups	-
3	Network	Provisions a VPC with multiple subnets. Hosts the database in a private subnet and runs Lambda functions in private subnets with egress access.	Hub Account	Amazon VPC, VPC Endpoints	
4	Data	Deploys the application database that stores all Sandbox Studio data. Kept separate to simplify upgrades.	Hub Account	Amazon RDS	Network
5	SES	Creates email templates for alerts and notifications.	Hub Account	Amazon SES	-

#	Stack	What it does	Deploy to	Key AWS Services	Depends on
6	Compute	Core back end components such as event driven Step Functions and CodeBuild tasks that are used to clean up and set up new accounts.	Hub Account	Event Bridge, Lambda, Step Functions, CodeBuild	Data, Network, SES
7	API	The front end compute stack including the API and user facing web application.	Hub Account	Lambda, API Gateway, S3, CloudFront	Compute

Where to get the CloudFormation templates

All templates are published to S3. Choose the version you want and construct URLs as:

```
https://sandbox-studio-software-dist.s3.amazonaws.com/versions/<VERSION>/<STACK_NAME>.template.json
```

The stack names (filenames) are shown below:

- SandboxStudio-AccountPool.template.json
- SandboxStudio-IDC.template.json
- SandboxStudio-Network.template.json
- SandboxStudio-Data.template.json
- SandboxStudio-SES.template.json
- SandboxStudio-Compute.template.json
- SandboxStudio-API.template.json

Find the latest version (optional): fetch

```
https://dist.sandboxstudiosoftware.com/latest.json
```

and use its "version" value in place of <VERSION>.

Example: if latest.json says {"version": "1.2.3"}, the AccountPool template is <https://sandbox-studio-software-dist.s3.amazonaws.com/versions/1.2.3/SandboxStudio-AccountPool.template.json>.

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